ABSTRACT OF THE DISCLOSURE

In an object request broker (ORB) for processing requests or responses among distributed objects, a method and an apparatus for realizing a high processing speed of a process to convert from data (communication data) which is used in communication among the ORBs and is not specific to particular computers into a data format (program data) which is specific to a program language. A correspondence between the communication data which was transmitted and received by the ORB and the conversion into the program data corresponding thereto is stored in a cache which can be called at a high speed. When a receiving process of the same communication data cached at the second and subsequent times or a transmitting process of the program data occurs, the cached conversion result is used.